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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,167	09/11/2003	Paul Reuben Day	ROC920030144US1	7591
30206 IBM CORPOR	7590 10/25/2007 A TION		EXAMINER	
ROCHESTER IP LAW DEPT. 917			PHAM, MICHAEL	
3605 HIGHWA ROCHESTER,	AY 52 NORTH MN 55901-7829		ART UNIT .	PAPER NUMBER
·	•	·	2167	
			MAIL DATE	DELIVERY MODE
			10/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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order open	Application No.	Applicant(s)
Interview Summary	10/660,167	DAY ET AL.
e '	Examiner	Art Unit
	Michael D. Pham M.R.	2167
All participants (applicant, applicant's representative, PTO	personnel):	
(1) Michael D. Pham.	(3) Scott A. Stinebruner (re	og. 38,323).
(2) <u>Cam Y Truong</u> .	(4)	
Date of Interview: <u>18 October 2007</u> .	·	
Type: a)⊠ Telephonic b)□ Video Conference c)□ Personal [copy given to: 1)□ applicant	2)⊡ applicant's representative	e]
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e) No.	•
Claim(s) discussed: 7.		
Identification of prior art discussed: Ozbutun and Thai.		
Agreement with respect to the claims f)  was reached.	g)∏ was not reached. h)⊠ N	N/A.
Substance of Interview including description of the genera reached, or any other comments: <u>See Continuation Sheet</u>		if an agreement was
(A fuller description, if necessary, and a copy of the amendallowable, if available, must be attached. Also, where no allowable is available, a summary thereof must be attached.	copy of the amendments that v	
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE A INTERVIEW. (See MPEP Section 713.04). If a reply to the GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW DATE, OR THE SUBSTANCE OF THE INTERVIEW ON reverse side or on attached sheet.	e last Office action has already OF ONE MONTH OR THIRT` FERVIEW SUMMARY FORM,	y been filed, APPLICANT IS Y DAYS FROM THIS WHICHEVER IS LATER, TO

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's representative explained the invention with respect to the claims. The examiners discussed the prior art in respect to the agenda. It was suggested to further define primary task with respect to figure 3. Examiners' further suggested to clarify the claims in respect to the arguements presented in the agenda such as further clarify "background task that is associated with the same query"; and to incorporate claim 12. Examiners will further review the case for allowance, pending any remaining issues, such as 35 U.S.C. 112, when a formal response is submitted.

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PATENT, TRADEMARK, COPYRIGHT AND UNITAIR COMPETITION LAW AND RELATED LITIGATION

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### FACSIMILE COVER SHEET

To: Examiner Michael Pham

Art Unit 2167

The United States Patent and Trademark

Office

Fax: 571-273-3924

Enclosures:

Fax Cover Sheet containing Certificate of Facsimile Transmission (1 page)
Agenda and Proposed Amendments

(1 page)

From: Scott A. Stinebruner

Re: Application No. 10/660,167

Filed: September 11, 2003

Applicant: Paul Reuben Day et al.

Confirmation No. 7591

Attorney Docket No. ROC920030144US1

Our File: IBM/256

Pages: 2 (including cover sheet)

### MESSAGE/COMMENTS

# Interview Agenda attached.

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence and the enclosures noted herein (2 total pages, including cover sheet) are being transmitted via fausimile transmission to <u>Fxaminer Michael Pham</u>. The United States Patent and Trademark Offige, at <u>571-273-3924</u> on <u>October 11</u>, <u>2007</u>.

Scott A. Stincbruner

Date

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## <u>Interview Agenda</u> 10/660,167

### §103 rejection

Claim 7 runs a first, primary task and a second, background task that <u>run concurrently</u> and are <u>associated with the same query</u>. The primary task retrieves records from storage using a bitmap that has been initialized to all active values. The background task updates the bitmap by setting values inactive for records that are <u>determined from an index</u> to not correspond to a selection criteria.

Examiner admits Thai does not disclose (1) running a background task associated with the same query concurrently with a primary task; (2) scanning a column of a table using an index and determining records not satisfying portion of selection criteria. Instead, Examiner relies on new reference to Ozbutun.

Ozbutun does not disclose a background task for <u>updating/building</u> a bitmap, where the background task is associated with the <u>same query</u> as the primary task.

Ozbutun discloses transactions that concurrently access different segments of a bitmap to update the bitmap; however, these transactions are not associated with the same query as the primary task. The transactions perform updates to correspond to changes made to the underlying table data, <u>not</u> to build the bitmap. (col. 6, lines 29-45).

Examiner asserts tasks are "associated with same query" because "queries are for the same bitmap." This is incorrect. Bitmaps are associated with columns of data, not queries. Completely different queries can use the same bitmap.

Ozbutun does not disclose updating a bitmap responsive to scanning a column of a table using an index built over the column.

Ozbutun discloses transactions that update a bitmap responsive to changes made to the underlying table data, not by scanning an index. (col. 6, lines 29-45).

Ozbutun discloses the bitmaps as being "bitmap indexes;" however, claim 7 requires a bitmap <u>and</u> an index, and there is no disclosure that an index is accessed when determining whether to update a bitmap.

That also teaches away, since col. 9, line 63 to col. 10, line 4 teaches that (1) a bitmap is built only when no index exists, and (2) the avoidance of accessing records only occurs on "subsequent query operations performed for the expression." Ozbutun also does not suggest any progressive building of a bitmap concurrently with using the bitmap to process a query.